REMARKS

Applicants hereby reply to the Office Action dated November 24, 2004 within the shortened three month statutory period for reply. The Examiner rejects claims 1-24 in view of new grounds of rejection. Applicants thank the Examiner for the indication of allowable subject matter in claims 25-28. Reconsideration of this application is respectfully requested.

The Examiner rejects claims 1-3, 8-9, 13-16, and 20 under 35 U.S.C. §103(a) as being unpatentable over Atkinson, et al. (U.S. Patent No. 5,892,904) in view of Matias et al. (U.S. Patent No. 6,681,017). Applicants respectfully traverse these rejections.

With regard to claims 1 and 14, the Examiner asserts that Atkinson fails to teach the formatting of data occurring in real time at the server; however, that Matias teaches that upon retrieving the data, formatting of the retrieved data occurs in real time at the server. Atkinson is limited to an authenticity key which is inserted into a code element prior to making the element available for transfer across a network. In other words, once a signature is attached to a data element, a security server does not re-sign the data element unless it is modified in any way. As stated by the Examiner, Atkinson does not disclose or suggest the real-time insertion of an authenticity key or signature which is inserted into a data element prior to each request for the data element.

Matias is limited to providing simplified security for a series of low cost transactions carried out between a client and a server. Matias discloses a method for dynamically generating a shared key at a client, encrypting the shared key using the public key of a server and sending the encrypted key to the server. When the encrypted key is received at the server, the server incorporates server information into a response which is encrypted using the shared key. On receiving the response, the client decrypts the response, verifies that the server has accepted the shared key and sends additional client information such as a credit card number to the server based on the shared key. However, the Matias process includes a response from the server containing server information that is encrypted by a shared key. For example, Matias discloses that "[T]he server responds by incorporating server information into a response which is encrypted using the shared key and sent to the client" (column 2, lines 10-12, emphasis added). However, Matias fails to disclose formatted data including at least one authenticity key. The Matias server information is not a key in that it does not control the process of encryption or

decryption. According to Matias, the client receiving the encrypted response from the server uses a key generated at the client to decrypt the response and obtain server information which includes an indication that the server accepted the shared key.

Further, Matias is limited to ensuring security of electronic transactions over a network. Specifically, the system of Matias is directed toward ensuring the identity of the client and the server entities during a transaction. According to Matias, "The transaction security techniques of the present invention are based on 'persistent' shared keys, which are established between a client and a server and persist for the duration of the client-server relationship." (column 3, lines 63-66). In other words, Matias discloses the creation of shared keys at the beginning of a client-server relationship. These shared keys are used during all subsequent sessions between the client and server to ensure that the server for which a session has been established is the same server that the relationship was initially established with. According to Matias, the keys are stored at the client and at the server, and while the client transmits its key to the server at the start of a transaction, at no time does the server transmit a key to the client. As such, Matias does not disclose or suggest "formatting the retrieved data in real-time at said server, wherein the formatted data includes at least one authenticity key" as similarly recited by independent claims 1, 8, 13 and 14.

Applicants assert that dependent claims 2-3, 9, 14-16 and 20 variously depend from independent claims 1, 8 and 14, and are differentiated from the cited references for at least the same reasons as set forth above for differentiating independent claims 1, 8 and 14 from the cited references, as well as in view of their own respective features.

The Examiner next rejects dependent claims 4, 6, 10-11, 17 and 23 under 35 U.S.C. §103(a) as being unpatentable over Atkinson, et al. (U.S. Patent No. 5,892,904) and Matias et al. (U.S. Patent No. 6,681,017), and further in view of Wallent, et al. (U.S. Patent No. 6,366,912). Applicants respectfully traverse these rejections. Applicants assert that dependent claims 4, 6, 10-11, 17 and 23 variously depend from independent claims 1, 8 and 14, and are differentiated from the cited references for at least the same reasons as set forth above for differentiating independent claims 1, 8 and 14 from the cited references, as well as in view of their own respective features.

The Examiner next rejects dependent claims 5, 7, 12, and 18-19 under 35 U.S.C. §103(a) as being unpatentable over Atkinson, et al. (U.S. Patent No. 5,892,904), Matias et al. (U.S. Patent No. 6,681,017) and Wallent, et al. (U.S. Patent No. 6,366,912) and further in view of Houser, et al. (U.S. Patent No. 5,606,609). Applicants respectfully traverse these rejections. Applicants assert that dependent claims 5, 7, 12, and 18-19 variously depend from independent claims 1, 8 and 14, and are differentiated from the cited references for at least the same reasons as set forth above for differentiating independent claims 1, 8 and 14 from the cited references, as well as in view of their own respective features.

The Examiner next rejects claim 21 under 35 U.S.C. §103(a) as being unpatentable over Atkinson, et al. (U.S. Patent No. 5,892,904) in view of Matias et al. (U.S. Patent No. 6,681,017) and further in view of Asad, et al. (U.S. Patent No. 6,681,017). Applicants respectfully traverse these rejections. Applicants assert that dependent claim 21 depends from independent claim 1, and is differentiated from the cited references for at least the same reasons as set forth above for differentiating independent claim 1 from the cited references, as well as in view of its own respective features.

The Examiner next rejects claim 22 under 35 U.S.C. §103(a) as being unpatentable over Atkinson, et al. (U.S. Patent No. 5,892,904) in view of Matias et al. (U.S. Patent No. 6,681,017) and further in view of Walker, et al. (U.S. Patent No. 6,286,001). Applicants respectfully traverse these rejections. Applicants assert that dependent claim 22 depends from independent claim 8, and is differentiated from the cited references for at least the same reasons as set forth above for differentiating independent claim 8 from the cited references, as well as in view of its own respective features.
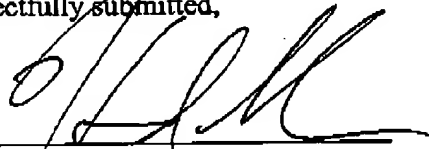
The Examiner next rejects claim 24 under 35 U.S.C. §103(a) as being unpatentable over Atkinson, et al. (U.S. Patent No. 5,892,904) in view of Matias et al. (U.S. Patent No. 6,681,017) and further in view of Kou (U.S. Patent No. 6,016,491). Applicants respectfully traverse this rejection. Applicants assert that independent claim 24 is differentiated from the cited references for at least the same reasons as set forth above for differentiating independent claims 1, 8, 13 and 14 from the cited references, as well as in view of its own respective features.

In view of the above remarks and amendments, Applicants respectfully submit that all pending claims properly set forth that which Applicants regard as their invention and are

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allowable over the cited references. Accordingly, Applicants respectfully request allowance of the pending claims. The Examiner is invited to telephone the undersigned at the Examiner's convenience, if that would help further prosecution of the subject Application. Applicants authorize and respectfully request that any fees due be charged to Deposit Account No. 19-2814.

Respectfully submitted,

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